

No. of Printed Pages : 03

Roll No.

AA-202

M. Tech. EXAMINATION, May 2018

(First Semester)

(B. Scheme) (Re-appear Only)

(BME)

BME503

BIOMATERIALS AND ARTIFICIAL
ORGANS

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt any *Five* questions. All questions carry equal marks.

(3-05/6) M-AA-202

P.T.O.

1. Explain the characterization, testing and evaluation of the fabrics used as biological materials. **20**
2. Discuss the various tissue responses to biomaterials. **20**
3. Explain the following : **20**
 - (a) Good manufacturing practice regulations for biomaterials
 - (b) Bio-erodible materials.
4. Elaborate the process of chemical and biochemical degradation of polymers and the factors responsible for it. **20**
5. Explain the thermal methods of materials characterisation. **20**
6. What do you mean by optical profilometer and discuss the conical laser scanning microscopy ? **20**
7. Discuss the artificial blood and its types. **20**
8. What are the recent developments in biomaterials ? Also explain the natural materials used for various biomedical application. **20**